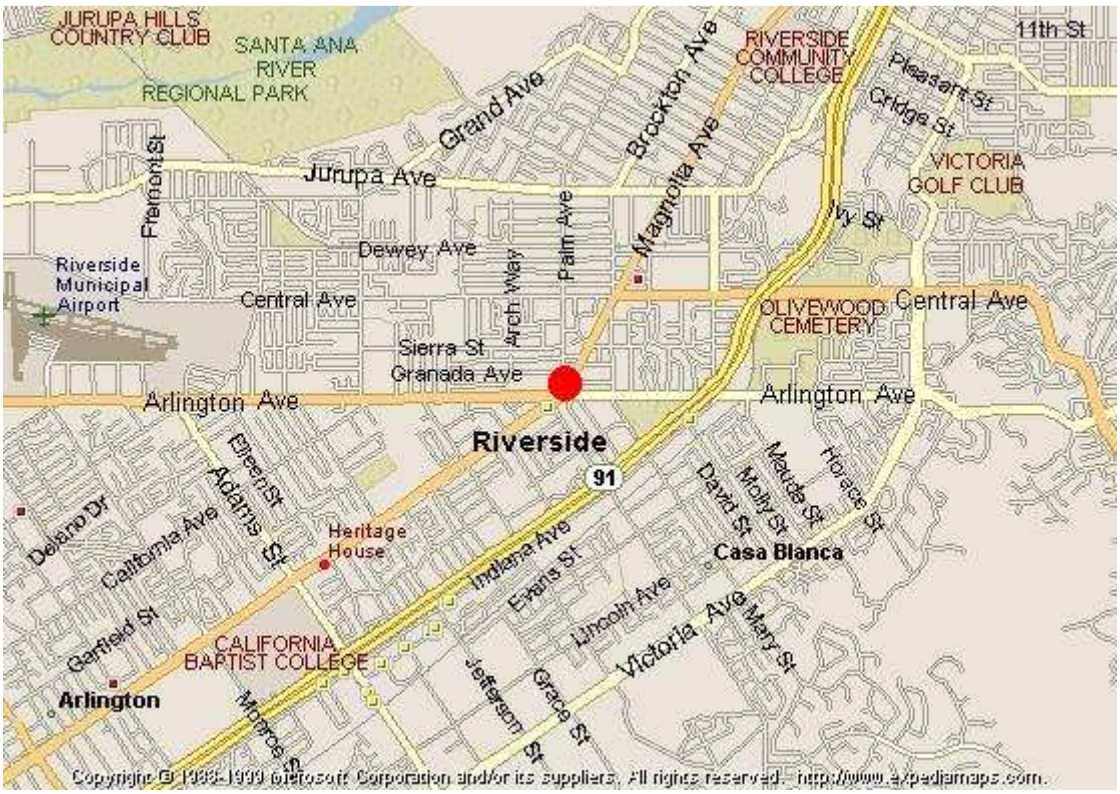
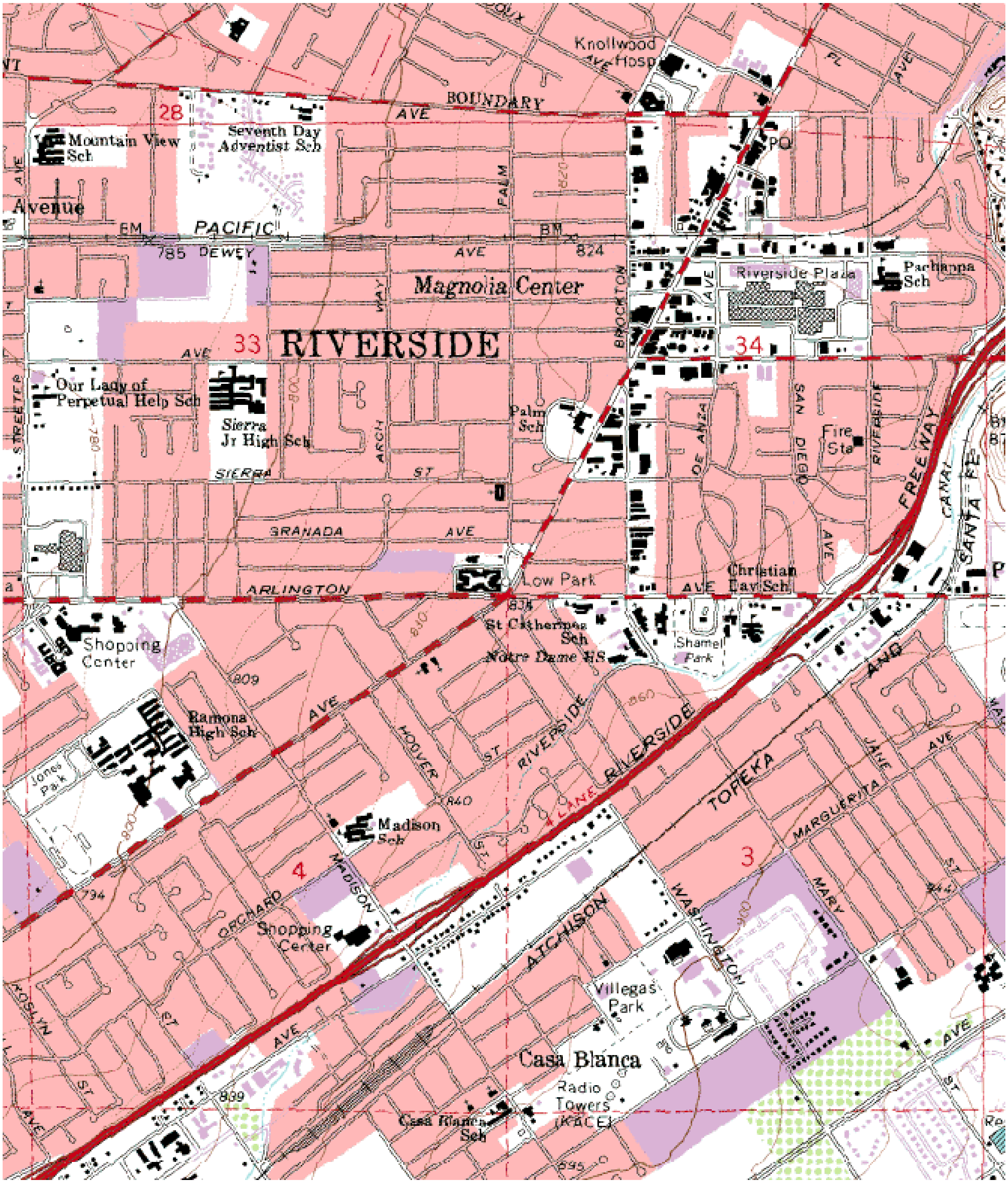
Quality Assurance
Site Survey Report for Riverside-Magnolia

Last updated May, 2014



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060651003	33146	10/1972	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
7002 Magnolia Ave Riverside,CA 92506	Riverside	South Coast	33° 56' 45"N	117° 24' 02"W	256


RIVERSIDE
Magnolia Center
Casa Blanca
BOUNDARY AVE
Knollwood Hosp
PO
Mountain View Sch
Seventh Day Adventist Sch
Avenue
PACIFIC
DEWEY AVE
BM
785
824
PALM
WAY
BROCKTON AVE
Riverside Plaza
Pachappa Sch
28
33
34
4
3
Our Lady of Perpetual Help Sch
Sierra Jr High Sch
STREETER
SIERRA ST
ARCH
Palm Sch
DE ANZA
SAN DIEGO AVE
RIVERSIDE
Fire Sta
FREEWAY
CANAL
SANTA FE
GRANADA AVE
ARLINGTON AVE
Low Park
Christian Day Sch
Shopping Center
St Catherines Sch
Notre Dame HS
Shamel Park
809
Ramona High Sch
Jones Park
HOOVER
ST
RIVERSIDE
AVE
4 LANE
TOPEKA
AND
JANE
MARGUERITA
MARY
Madison Sch
MADISON
ORCHARD
Shopping Center
ATCHISON
WASHINGTON
Villegas Park
Radio Towers (KACE)
Casa Blanca Sch
KOSLYN
734
839
895
840
860
830

Detailed Site Information

Local site name	Riverside-Magnolia
AQS ID	060651003
GPS coordinates (decimal degrees)	Latitude: 33° 56’ 45” Longitude: 117° 24’ 02”
Street Address	7002 Magnolia Ave, Riverside, CA 92506
County	Riverside
Distance to roadways (meters)	28
Traffic count (AADT, year)	40,000 / 2012
Groundcover (e.g. asphalt, dirt, sand)	Asphalt
Representative statistical area name (i.e. MSA, CBSA, other)	40140-Riverside-San Bernardino-Ontario, CA MSA

Pollutant, POC	Carbon Monoxide, 1	Lead, 2	Lead, 3	24 Hour PM2.5, 1
Parameter code	42101	14129	14129	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Highest Concentration	Highest Concentration	Highest Concentration	Highest Concentration
Monitor (type)	SLAMS	SLAMS/QA Collocated	SLAMS/QA Collocated	SLAMS
Instrument manufacturer and model	Horiba APMA 360	GMW 1200 TSP, A Sampler	GMW 1200 TSP, B Sampler QA Collocated	Andersen RAAS PM2.5
Method code	106	110	110	780, 120
FRM/FEM/ARM/ other	FRM	FRM	FRM	FRM
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e.weigh lab, toxics lab, other)	N/A	SCAQMD	SCAQMD	SCAQMD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Micro	Micro	Micro	Neighborhood
Monitoring start date (MM/DD/YYYY)	10/1972	10/1972	10/1972	01/06/1999
Current sampling frequency (e.g.1:3, continuous)	1:1	1:6	1:6	1:3
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	1:6	1:12	1:3
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	7.9	7.9	7.9	7.9
Distance from supporting structure (meters)	1.5	1.4	1.4	1.4
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A

Distance from trees (meters)	15	15	15	15
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	2.0	2.0	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	N/A
Residence time for reactive gases (seconds)	11.4	N/A	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Nightly	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	03/14/2014	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	12/05/2013, 06/05/2013	12/05/2013, 06/05/2013	12/05/2013, 06/14/2013

Pollutant, POC	Nitrogen Dioxide, 1	Continuous PM2.5, 3	Continuous PM10, 3	
Parameter code	42602	88502	81102	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Highest	Population Exposure	

		Concentration		
Monitor (type)	SLAMS	SLAMS	SLAMS	
Instrument manufacturer and model	Thermo 42i	Met One BAM 1020	Met One BAM 1020	
Method code	N/A	731	122	
FRM/FEM/ARM/ other	FRM	Non-FEM	FEM	
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	
Analytical Lab (i.e.weigh lab, toxics lab, other)	N/A	N/A	N/A	
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g. micro, neighborhood)	Urban	Neighborhood	Neighborhood	
Monitoring start date (MM/DD/YYYY)	12/2008	04/09/2009	07/20/2010	
Current sampling frequency (e.g.1:3, continuous)	1:1	1:1	1:1	
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	N/A	N/A	
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	
Probe height (meters)	7.9	7.9	7.9	
Distance from supporting structure (meters)	1.5	1.5	1.5	
Distance from obstructions on roof (meters)	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	
Distance from trees (meters)	15	15	15	
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	
Distance between collocated monitors (meters)	N/A	N/A	N/A	
Unrestricted airflow (degrees)	360°	360°	360°	
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon/Glass	N/A	N/A	
Residence time for reactive gases (seconds)	12.9	N/A	N/A	
Will there be changes within the next 18 months? (Y/N)	No	No	No	

Is it suitable for comparison against the annual PM2.5? (Y/N)	No	N/A	No	
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	Monthly	
Frequency of one-point QC check for gaseous instruments	Nightly	N/A	N/A	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	03/14/2014	N/A	N/A	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	06/26/2012, 12/07/2012	06/26/2012, 12/07/2012	

Riverside-Magnolia
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Riverside-Magnolia
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.